Refining & Chemicals
Polymers Orient

Technical Data Sheet
Compound Polystyrene
Manufactured in China

Description

- TOTAL POLYSTYRENE 9217 is a super impact polystyrene alloy with high level of stress crack resistance.
- This grade has excellent mechanical properties and good abrasion and tear resistance.

Applications

- Electronics packaging
- Base Resin for Conductive Compound

Properties	Method	Unit	Value (*)
Rheological			
Melt Flow Index (200°C/5kg)	ISO 1133	g/10min	3.50
Thermal			
Vicat Softening Point 10N (T° increase = 50°C/h)	ISO 306	°C	95
Coefficient of Linear Thermal Expansion	-	mm/°C	8.90
Mechanical			
Notched Izod Impact Strength	ISO 180	kJ/m²	40.0
Tensile Strength at Yield	ISO 527	MPa	18
Elongation at Break	ISO 527	%	90
Flexural Modulus	ISO 178	MPa	1100
Rockwell Hardness	ISO 2039	-	R93
Electrical			
Dielectric Strength	-	kV/mm	150
Surface Resistivity	ISO IEC 93	Ohms	$>10^{13}$
Others			
Density	ISO 1183	g/cm³	1.00
Moulding Shrinkage	-	%	0.4-0.7
Water Absorption	ISO 62	%	<0.1

(*) Data not intended for specification purposes.
**All tests have been carried out at 23°C unless otherwise stated.*
**Mechanical properties have been measured on injection molded test specimens.*
**Bulk density is approximately 0.6 g/cm^3.*

General Information

- Processing condition: Temperatures during extrusion/injection should be below 240°C.
- Recommended Pre-dry condition: 70°C for 2 hours.
- Please refer to the safety data sheet (SDS) for handling and storage information. It is advisable to convert the product within six months after delivery provided storage conditions as given in the SDS of our product. SDS may be obtained from the website: www.totalrefiningchemicals.com

Polystyrene

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